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Knauf Drywall Systems Guide

Partitions
Ceilings
Linings

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Knauf Group

Knauf was founded as a family-owned company by the brothers Karl and Dr. Alfons Knauf in 1932 in Germany. Today, their sons, Nikolaus and Baldwin Knauf, continue in their footsteps as the managing partners of a global corporate group.

Knauf operates from its headquarters in Iphofen, Bavaria, Germany, and is a leading manufacturer of drywall building materials such as gypsum wallboards, interior plasters, ceiling systems, floor systems and state-of-the-art insulation materials. Knauf also manufactures conventional building materials such as external renders and cement-based screeds.

With over 170 plants spread across 37 countries in Europe, USA, Asia and Latin America, and a workforce of 24,000, the Knauf Group has revenues of around 6 billion Euros annually.

Knauf leads the development of building markets around the globe with its focus on technical innovation and high quality standards. Committed to the environment, Knauf is active in maintaining ecological balance across all its operations. By doing so, Knauf continues to set a fine example of institutionalized excellence worldwide.

Knauf LLC is the regional subsidiary for the Knauf Group in the Middle East, providing technical and commercial support, specification, design and training services.



Knauf Drywall Systems

The products described in this brochure are only a selection of Knauf's extensive "Drywall Product Range" and include the following:

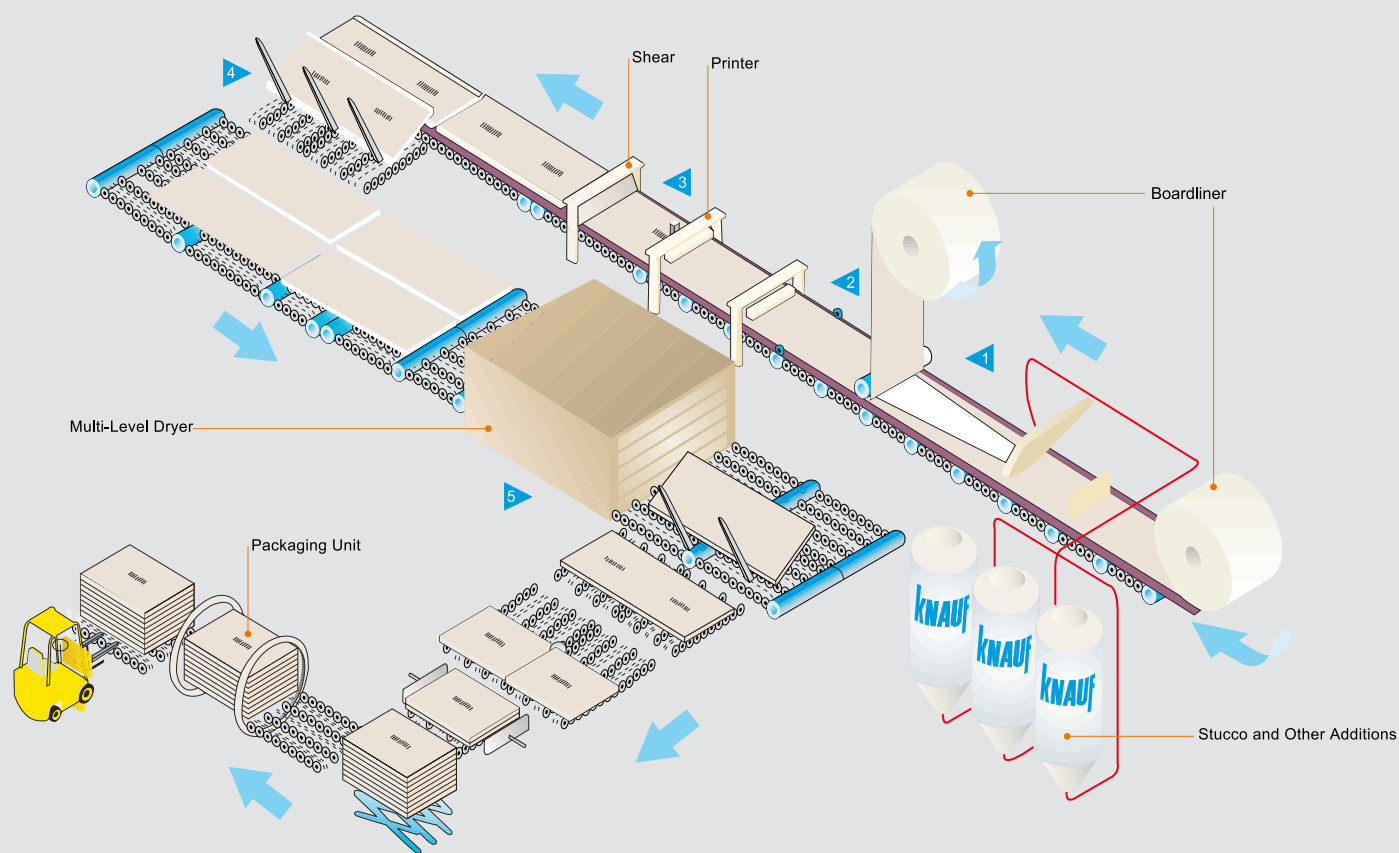
- Knauf Partition Walls with Knauf Gypsum Boards installed on a metal frame
- Knauf Ceilings installed on a metal grid
- Knauf Wall Linings installed with furring channels on block work

Knauf Drywall Systems are lightweight construction systems that can considerably reduce loads in structures, thus positively influencing the structural properties of buildings. They consist of Knauf Gypsum Boards installed on a metal frame, joint filler to create a seamless surface, and a finishing top coat that may be either a conventional plaster or a skim coat. They allow for flexibility along the overall architectural planning process and in all stages of construction. Knauf Drywall Systems save lead time on jobsites with standardized, easy-to install procedures. They result in more utilizable interior space – from 1.0 to 1.5% - due to less built-in space. Redecorations within buildings become an affordable option as rooms can be remodeled with ease and at short notice. Knauf Drywall Systems surpass international building standards in sound & thermal insulation and fire protection despite their low weight. Additionally, M&E service installations can be integrated into Knauf Drywall Systems by concealing them in the cavities of partition walls.

Knauf Drywall Systems are constantly subjected to several thorough quality control tests at the Knauf Central Laboratories in Germany in order to underpin their premium construction safety and efficiency.

Knauf Drywall Systems guarantee the freedom of architectural expression and design. By setting new benchmarks in the aesthetics of interior spaces, they have become a front-runner in European and Middle Eastern interiors today.

About Knauf Gypsum Board



Gypsum Board Production

Gypsum slurry is made up of stucco, water and other additives, in a continuous mixer. The slurry spreads, in a uniform stream, from multiple outlet hoses onto a moving sheet of paper.



As the board is actually produced upside down, this paper will form the front face of the gypsum board. Discs 'score' this paper allowing it to be easily folded at the edges. The 'back face' paper, fed from above the production line, is applied to the slurry via a forming head set to the desired board thickness. At this point, the front paper is folded at the edges, producing an enclosed envelope of gypsum slurry. Once formed, the board travels the length of the production line on a series of setting belts, and sections of rollers to the shear. During this journey, the gypsum core has time to set, or harden.



All the required product information, including product name and type, relevant standards, date and time of manufacture, is printed on the back of the boards via an ink jet printer.



At the shear, the long train of boards is cut into panels of specific length. These smaller boards are then turned over and passed into a multi-layer dryer.



During the drying period, the excess water, which was required to form the initial slurry, is gently evaporated off. After the boards have dried, they are trimmed and stacked to form pallets. These pallets are then placed in the warehouse after which they are loaded onto trucks for distribution.





Knauf Gypsum Board can easily be attached to a metal frame with Knauf Drywall Screws, to a timber frame with either Knauf Drywall Nails or Screws, or be directly bonded on masonry substrate with Knauf Perlfix (adhesive gypsum). Knauf Gypsum Board is used in a variety of Knauf Systems: Knauf Partition Walls, Knauf Ceilings, Knauf Wall Linings, Knauf Dry Floors, Knauf Shaft Walls, Knauf Column & Beam Encasements, and as the cladding on interior walls in steel structures. All Knauf Systems comply with, and surpass, high international building parameters in fire protection and thermal & sound insulation.

Knauf Gypsum Board is a smooth wallboard that is a major component of Knauf Drywall Systems. Boardliner, a multi-ply paper used both on the face and the back of the board, sandwiches the gypsum slurry to form the wallboard. Knauf Gypsum Board can be produced as a standard series, or can be manufactured in customized sizes that comply with both international building standards and Knauf in-house quality regulations.

Knauf Gypsum Board is a building material that is used exclusively in interiors. Various additives in the gypsum core of the board allow for the production of a variety of boards that can be used in a wide range of indoor applications.

Compliance with International Standards:

Europe	EN 520
Germany	DIN 18180
International	ISO 6308
UK	BS 1230
France	NF 72-302
USA	ASTM C1396 / 1396 M

Knauf Gypsum Boards

Board Type	Edge Profile	Thickness (mm)	Weight (kg/m²)	Width (mm)	Length (mm)
Knauf Regular Gypsum Board (RG)	AK / VK	12.5	9 - 9.5	1200	2000
		15	12 - 14		
		18	16 - 18		
Knauf Moisture-Resistant Gypsum Board (MR)	AK / VK	12.5	10.5	1200	2200
		15	13		
		18	16		
Knauf Fire-Resistant Gypsum Board (FR)	AK / VK	12.5	10	1200	2400
		15	13		
		18	15.5		
Knauf Fire and Moisture-Resistant Gypsum Board (FM)	AK / VK	12.5	10 - 11	1200	2500
		15	13 - 14		
		18	16 - 18		
Knauf Diamant Impact-Resistant Board (FM+IR)	AK / HRAK	12.5	10 - 11	1200	2800
		15	13 - 14		
Knauf Piano Soundshield Board (RG/MR/FR)	AK / HRAK	12.5	10.7	1200	3000

Edge Profiles of Knauf Gypsum Boards

Edge Profiles	Description	German Abbreviation
	Tapered Edge	AK
	Square Edge	VK
	Half rounded tapered edge *	HRAK

*Only available for Knauf Piano & Diamant Boards

Knauf Regular Gypsum Board (RG)

Knauf Regular Gypsum Board is a lightweight board that provides higher sound insulation and fire-resistance properties than conventional building materials. Knauf Regular Gypsum Boards are generally used in Partition Walls, Wall Linings and Knauf Ceilings.

Quality Certification: EN520, BS1230, ASTM C36, ASTM C1396 / 1396M, DIN 18180



Knauf Fire-Resistant Gypsum Board (FR)

Knauf produces Fire-Resistant Gypsum Boards to fulfill high fire protection requirements. Fiber glass is used as an additive in the gypsum slurry to improve the fire rating values of this board.

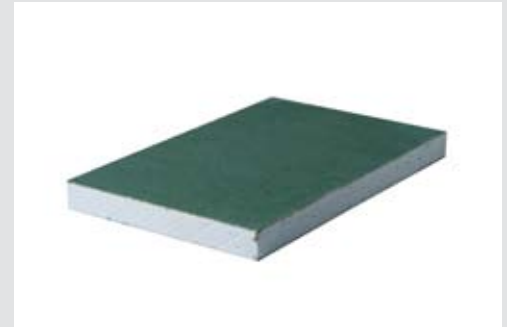
Quality Certification: EN520, BS1230, ASTM C36, ASTM C1396 / 1396M, DIN 18180, ASTM E119



Knauf Moisture-Resistant Gypsum Board (MR)

In addition to the features of the Knauf Regular Gypsum Board, the Knauf Moisture-Resistant Board contains hydrophobizing agents that make it moisture-resistant. It can be used in areas of humidity and exposure to moisture.

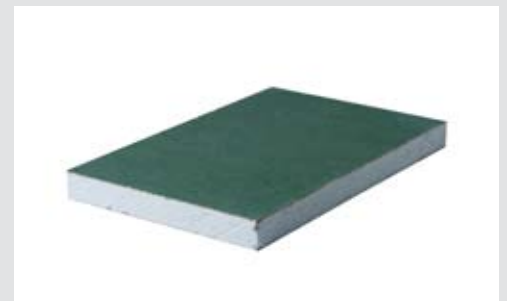
Quality Certification: EN520, BS1230, ASTM C36, ASTM C1396 / 1396M, DIN 18180, ASTM E119



Knauf Moisture & Fire-Resistant Gypsum Board (FM)

The Knauf Moisture & Fire-Resistant Gypsum Board incorporates the common features of both Knauf MR and FR Gypsum Boards. It possesses both moisture-resistance and fire-resistance properties.

Quality Certification: EN520, BS1230, ASTM C36, ASTM C1396 / 1396M, DIN 18180



Knauf Piano Soundshield Board (RG / MR / FR)

Knauf Piano Soundshield Boards are gypsum wallboards specially developed to offer sound protection performance superior to regular gypsum boards. The Knauf Piano Soundshield Board is manufactured both as regular and fire-resistant board, and it is part of the “Knauf Diva Partition System” which can achieve sound protection values up to $RW,R = 73\text{dB}$.

Quality Certification: EN520, DIN 18180



Knauf Diamant Impact-Resistant Board (FM / IR)

Knauf Diamant Impact-Resistant Board is a gypsum wallboard specially developed to provide exceptional impact resistance. A combination of high density and high strength core coupled with a purpose designed liner paper offers a significant improvement in impact performance in comparison to standard gypsum board.

Quality Certification: EN520, DIN18180



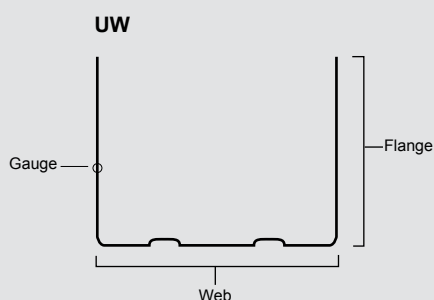
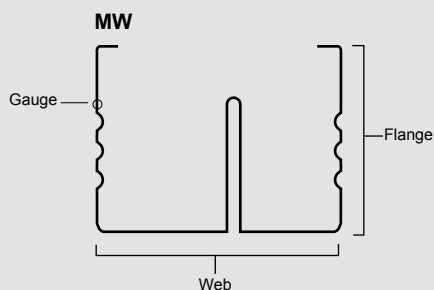
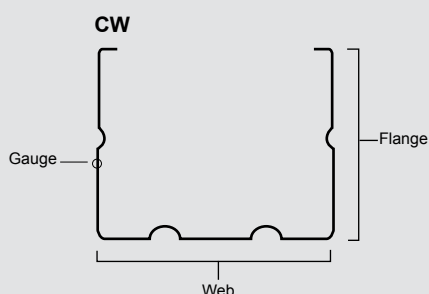
Knauf Metal Studs and Tracks for Partitions

The Knauf Metal Studs and Tracks consist of steel studs and channels, also generically known in Germany as metal profiles. Knauf Metal Studs and Tracks are manufactured in accordance with EN 14195, DIN 18182, and ASTM C 645 and possess the following on-site properties:

- Greater stability and resistance
- High moment of inertia
- Easy screw attachment

All Knauf Metal Studs and Tracks are galvanized and have a non-corrosion guarantee. The standard steel gauge of Knauf Studs and Tracks is 0.6mm $\pm$ 0.002%.

Knauf Drywall Systems with Knauf Metal Studs and Tracks provide a compressive solution in the design phase of indoor wall partitions and wall linings where ease, speed and premium quality are of utmost importance.



Knauf CW Studs

Galvanized lightweight steel section for use in non-load-bearing partition systems.

Dimensions (mm)			
Gauge	Size/Web	Length	Flange
0.60	50	2700	35
		2800	
		3000	
0.60	50	2700	49
		2800	
		3000	
0.60	70	2700	35
		2800	
		3000	
0.60	70	2700	49
		2800	
		3000	
0.60	92	2700	35
		2800	
		3000	
0.60	92	2700	49
		2800	
		3000	

Knauf MW Studs

Galvanized lightweight sound neutralizing patented studs cold formed from high grade galvanized steel for use in high performance sound protection partitions.

Dimensions (mm)			
Gauge	Size/Web	Length	Flange
0.60	75	3000	49
0.60	100	3000	49

Knauf UW Channels

Galvanized steel sections for use as the standard head and floor track for partitions.

Dimensions (mm)			
Gauge	Size/Web	Length	Flange
0.50	50	3000	32
0.50	50	3000	40
0.60	50	3000	32
0.60	50	3000	40
0.50	70	3000	32
0.50	70	3000	40
0.60	70	3000	32
0.60	70	3000	40
0.50	92	3000	32
0.50	92	3000	40
0.60	92	3000	32
0.60	92	3000	40



Knauf Joint Fillers

About Gypsum

Gypsum is nature's brilliant invention. Initial gypsum deposits were formed 100 to 200 million years ago when water from seas evaporated in flat basins along the earth's crust. Chemically speaking, gypsum is calcium sulfate, CaSO_4 , that crystallizes with water.

As a building material, the history of gypsum dates back to antiquity. Today, the outstanding physical and technical features of gypsum-based building materials still make them unique throughout the world. Gypsum is a material that breathes. Its natural properties allow for the rapid absorption of excess moisture which is released when the ambient humidity drops in rooms. With its inherent crystal water, gypsum is resistant to fire, and can therefore fulfill both regular and enhanced fire protection requirements. When compared to other conventional building materials, gypsum has higher sound and thermal insulation values, and is capable of fulfilling the requirements of the most stringent international building standards.

Gypsum is non-toxic and does not contain any poisonous matter or fibers. It has the same pH value as the human skin. It is widely used on a daily basis in fine arts and the medical & ceramics industries. Moreover, it is odorless, electrically neutral, and environment-friendly.



Knauf Fugenfuller

Knauf Fugenfuller is a gypsum-based setting type joint filler that is used to fill in the joints between Knauf Gypsum Boards to create seamless surfaces. Knauf Joint Tape is used with Knauf Fugenfuller during joint treatment applications.

Knauf Uniflott

Knauf Uniflott is a synthetic tempered, high performance joint filler which is produced from Knauf's one of a kind alpha gypsum technology.

Technically enhanced with additives, Knauf Uniflott is used for hand filling of Knauf Boards with HRK (half-rounded edge), AFK (tapered beveled edge) without joint tape on paper-covered edges and together with joint tape on AK (tapered edges).

Knauf F2F

Knauf F2F is a ready-to-use white pasty finish. Knauf F2F consists of synthetic dispersion as binder and a combination of fine-particled, mineral calcium carbonate fillers and suspending agents. Knauf F2F is used to create flat, smooth, and seamless surfaces. Knauf F2F can be leveled down completely to a smooth coat of 0 mm. Knauf F2F is ideally suited for joint filling and finishing of Knauf Gypsum Boards with tapered edges. Knauf F2F can either be applied by hand or with a machine.



*Gypsum Crystal

Knauf Partition Walls



Knauf Partition Wall Systems comply with the most stringent international building standards. Knauf Partition Walls are installed by attaching any of the following types of Knauf Gypsum Boards on a metal frame made of Knauf Studs and Channels: Knauf Standard Gypsum Board, Knauf Fire-Resistant Gypsum Boards, Knauf Moisture-Resistant Gypsum Board, Knauf Fire & Moisture-Resistant Gypsum Board, Knauf Piano Soundshield Boards or Knauf Diamant Impact-Resistant Boards. To obtain seamless and smooth drywall surfaces, joint filling procedures are carried out in accordance with Knauf Jointing & Finishing Technology. Knauf Partition Walls are highly fire-resistant, value-added systems that also possess high sound and thermal insulation values. The installation procedure of Knauf Partition Walls is fast, clean, easy and waste-free. Paint, wallpaper, tiles and other similar covering layers can be applied on Knauf Partition Walls. All M&E (mechanical and electrical) service lines such as electrical cables, plumbing lines and sewage pipes can be easily concealed in the cavities of Knauf Partition Walls.

towers and skyscrapers will be much lower than traditional brick and block partitions.

With their fire-resistance, sound & thermal insulation properties, and lightweight composition, Knauf Partition Walls are unique systems that offer outstanding high-end solutions in all types of indoor applications.

Knauf Partition Walls are lightweight systems that adapt to the movements of buildings and therefore offer ideal and cost-efficient solutions, particularly for high rise structures. Loads inflicted on

An Overview of Knauf Partition Systems Performance and Selection Criteria

Selection Criteria	W111 Standard Partition	W112 Standard Partition	W113 Standard Partition	W115 Inter-Apartment Walls	W116 Installation Wall
Fire Rating in Minutes (F)	30	30-120	120-180	30-120	30-120
Sound Insulation (dB)	41-44	50-53	51-55	59-60	52
Thermal Insulation (W/m ² K)	0.40-0.66	0.38-0.61	0.36-0.57	0.27-0.37	0.6
Maximum Height (m)*	8	9	9.5	6.5	6.5
Partition Wall Thickness (mm)	75-117	100-142	125-167	155-239	>220
Inter-Apartment	+	+	+	+	-
Inter-Room / Inter- Apartment					
Inter-Dwelling	-	-	-	+	-
Hotel Rooms		+	+	+	-
Moist rooms / Installation walls	+	+	+	+	+
Hospitals	-	+	+	+	+
Regular Offices	+	+	+	+	-
Manager's Office	-	+	+	+	-
Theater / Cinema	-	-	-	+	-
Shaft	-	+	+	+	-
Factory	-	+	+	+	-
Warehouse	+	+	+	+	-
*See 'Technical Data Sheet W11' for detailed wall heights according to installation zones and heights including fire protection.					

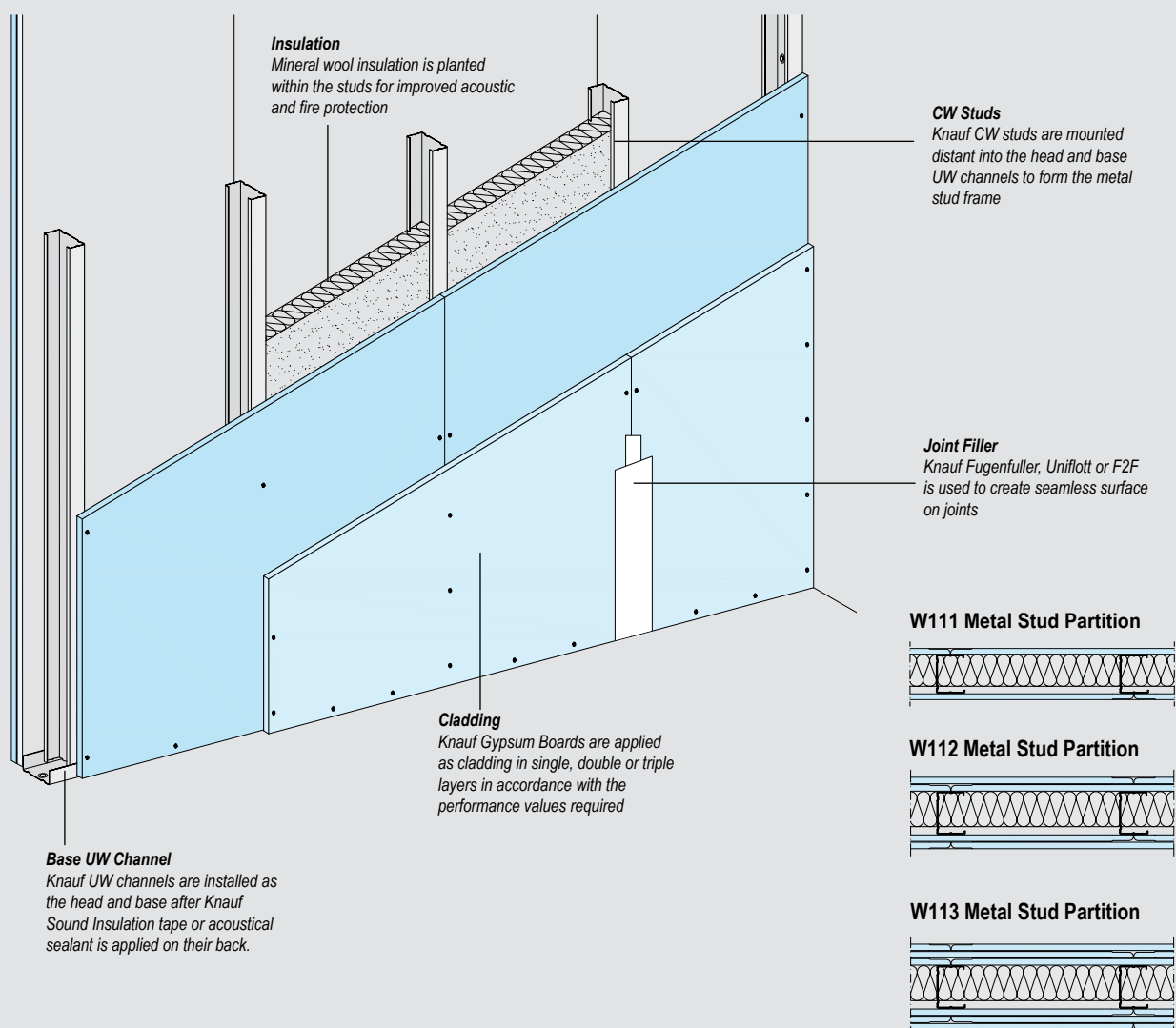
W111,W112,W113 Knauf Standard Partition Walls

Knauf Standard Partition Walls W111, W112, and W113 are non-load-bearing partition walls that are ideal for indoor installation due to their reliability, speed and cost-efficiency.

Knauf Standard Partition Walls W111, W112 and W113"

- Are used as partition walls in commercial and residential buildings.
- Are lightweight and their impact on the bearing structure of the building is very low. They adapt to movements of the building. Therefore, they are ideal for the construction of high-rise buildings.
- Are versatile systems that can easily fulfill performance requirements such as fire-resistance, and sound & thermal insulation.
- Are applied with a minimum number of accessories. They provide savings on transportation and labor, and are easy to install.

Depending on the performance requirements, Knauf Partition Wall Systems can use all types of Knauf Gypsum Boards, including Knauf Standard Gypsum Board, Knauf Moisture-Resistant Gypsum Board, Knauf Fire-Resistant Gypsum Board, Knauf Moisture & Fire-Resistant Gypsum Board, Knauf Piano Soundshield Board, and Knauf Diamant Impact-Resistant Board as cladding.

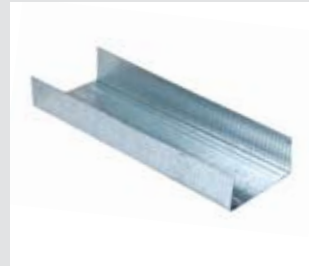


Knauf Partition Wall Accessories



Knauf CW Studs

Knauf CW Studs are lightweight galvanized steel studs used to erect vertical metal frames.



Knauf UW Channels

Knauf UW channels are used as heads on ceilings and bases on floors in the metal frame.



Knauf TN self-tap Drywall Screws

Knauf TN self-tap Drywall Screws are used to attach Knauf Gypsum Boards on the metal frame.



Knauf Sound Insulation Tape

In order to fulfill sound and thermal insulation requirements fully, Knauf Insulation Tape is attached on the back of Knauf UW channels and CW studs that constitute the metal frame where it abuts to the bearing structure.



Knauf Joint Tape

Knauf Joint Tape is attached on the joints of Knauf Gypsum Boards before Knauf Fugenfuller or F2F joint filler is applied to create a seamless surface.



Knauf Acoustical Sealant

An all-purpose water-based acrylic gun-applied acoustic sealant for use with Knauf Drywall Systems. It is applied with two continuous beads under the studs and tracks abutting concrete to prevent airborne transmission of sound and vibrations.



Knauf Fugenfuller

Knauf Fugenfuller is used to treat gypsum board joints and creates a seamless appearance on board surfaces.



Knauf Uniflott

As an alternative to Knauf Fugenfuller, Knauf Uniflott can be used to fill in and finish gypsum board joints. It creates a seamless appearance on board surfaces. Do not use joint tape on HRK and HRAK edge boards while applying Knauf Uniflott.



Knauf F2F

As a ready mixed alternative Knauf F2F can be used to fill in and finish gypsum board joints. F2F can also be used as a skim coat to provide a glossy and smooth look. It is a suitable substrate for synthetic paint, oil paint or wallpaper.

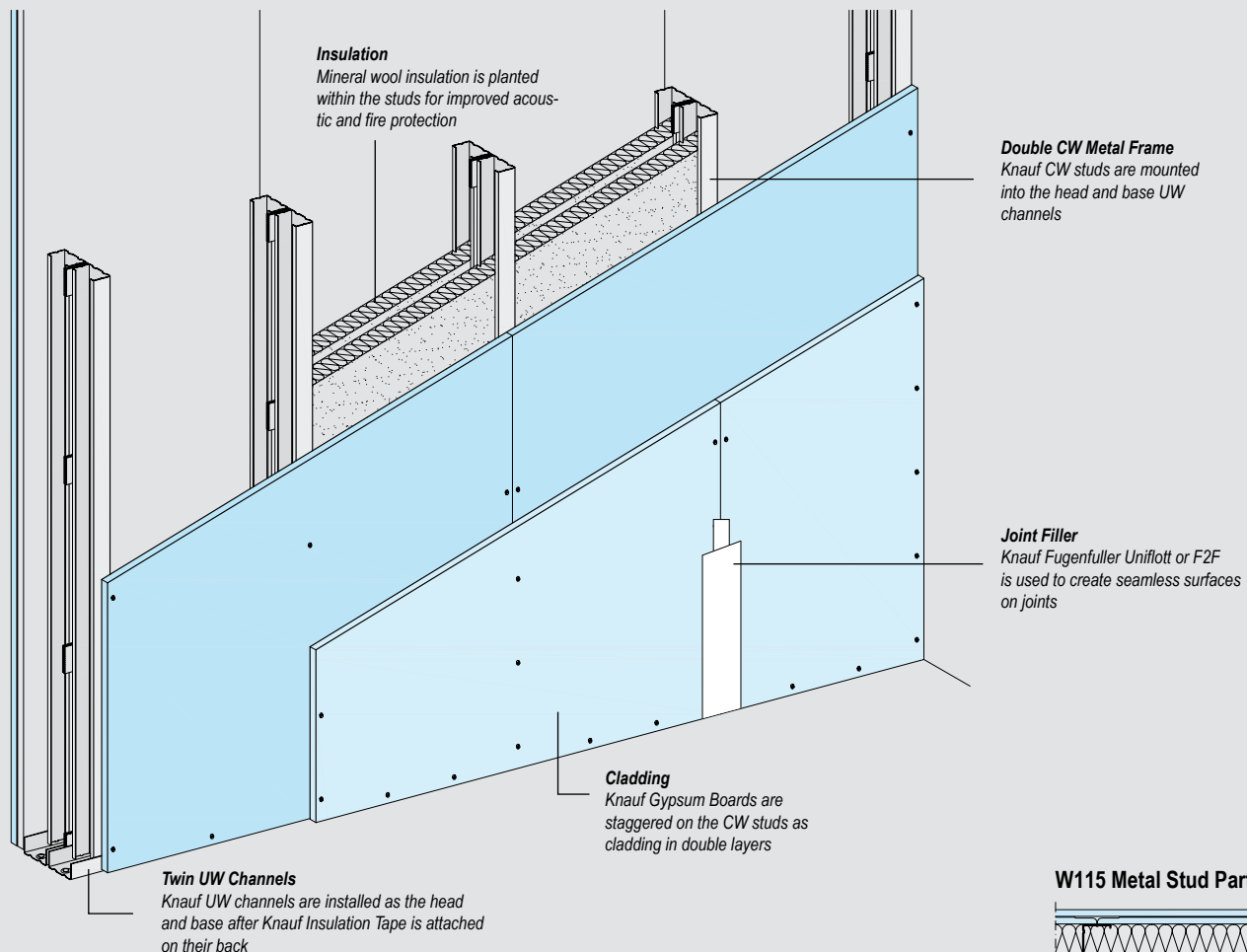
W115 Knauf Inter-Apartment Partition Walls

Knauf W115 Inter-Apartment Partition Wall System consists of non-load-bearing partition walls that are ideal for indoor installation. Due to their high sound-insulation values they are ideal as separating walls between apartments, and for areas that require enhanced sound insulation (hotel rooms, cinemas, etc.)

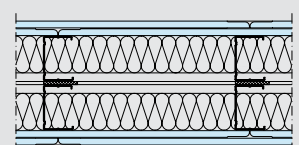
Knauf W115 Inter-Apartment Partition Walls:

- Are used for hotel rooms and in areas where the risk of noise pollution is high (cinemas, conference halls, theaters etc.), and as separating partition walls between apartments.
- Are lightweight and their impact on bearing system of the building is very low. They adapt to movements of the building. Therefore, they are ideal in the construction of high rise buildings.
- Are versatile systems that can easily fulfill performance requirements such as fire protection and sound and thermal insulation.
- They meet very high performance requirements with minimum accessories. They provide savings on transportation and labor, and are easy to install.

Depending on the performance requirement, the Knauf W115 System can use all types of Knauf Gypsum Boards, including Knauf Standard Board, Knauf Moisture-Resistant Gypsum Board, Knauf Fire-Resistant Gypsum Board, and Knauf Moisture & Fire-Resistant Gypsum Board, Knauf Piano Soundshield Board, and Knauf Diamant Impact-Resistant Board as cladding.



W115 Metal Stud Partition



Knauf Partition Wall Accessories



Knauf CW Studs

Knauf CW Studs are lightweight galvanized steel studs used to erect vertical metal frames.



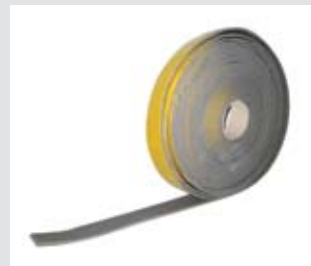
Knauf UW Channels

Knauf UW channels are used as heads on ceilings and bases on floors in the metal frame.



Knauf TN self-tap Drywall Screws

Knauf TN self-tap Drywall Screws are used to attach Knauf Gypsum Boards on the metal frame.



Knauf Sound Insulation Tape

In order to fulfill sound and thermal insulation requirements fully, Knauf Insulation Tape is attached on the back of Knauf UW channels and CW studs that constitute the metal frame where it abuts to the bearing structure.



Knauf Joint Tape

Knauf Joint Tape is attached on the joints of Knauf Gypsum Boards before Knauf Fugenfuller or F2F joint filler is applied to create a seamless surface.



Knauf Acoustical Sealant

An all-purpose water-based acrylic gun-applied acoustic sealant for use with Knauf Drywall Systems. It is applied with two continuous beads under the studs and tracks abutting concrete to prevent airborne transmission of sound and vibrations.



Knauf Fugenfuller

Knauf Fugenfuller is used to treat gypsum board joints and creates a seamless appearance on board surfaces.



Knauf Uniflott

As an alternative to Knauf Fugenfuller, Knauf Uniflott can be used to fill in and finish gypsum board joints. It creates a seamless appearance on board surfaces. Do not use joint tape on HRK and HRAK edge boards while applying Knauf Uniflott.



Knauf F2F

As a ready mixed alternative Knauf F2F can be used to fill in and finish gypsum board joints. F2F can also be used as a skim coat to provide a glossy and smooth look. It is a suitable substrate for synthetic paint, oil paint or wallpaper.

W116 Knauf Installation Walls

Knauf W116 Installation Wall Systems are non-load-bearing partition walls that are ideal for indoor installation due to their reliability, speed and cost-efficiency. They are partition walls that contain M&E (mechanical and electrical) service lines.

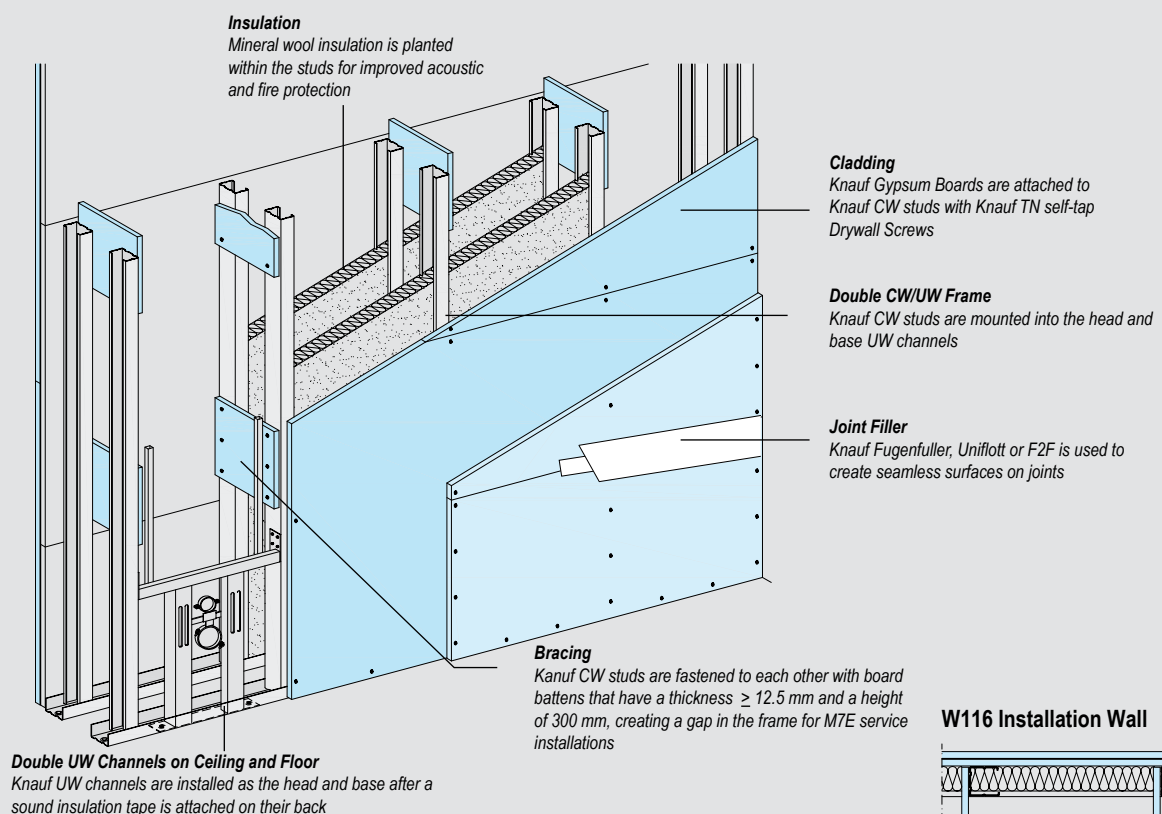
Knauf W116 Installation Wall Systems:

- Are ideal for concealing M&E service lines such as lavatory, plumbing and sewage lines in moist rooms where service lines should ideally remain unseen. Thus, space can be saved and a smooth, decorative appearance can be created in such rooms.
- Failures that might occur in the service lines are easy to repair: to access any point of failure in the lines, the Knauf Gypsum Board on it can be cut out carefully. After the repair work is completed, the cut-out gypsum board is reinstalled by using a coat of Knauf Plaster.
- Alternatively, Knauf Access Panels for partitions can be used to access areas that conceal service lines that require repair or replacement. Refer to Knauf Access Panels brochure for more details.

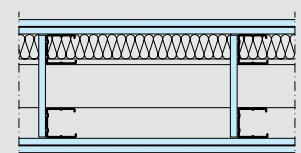
Knauf W116 Installation Wall Systems:

- Are lightweight and their impact on the bearing system of the building is very low. They adapt to movements of the building. Therefore, they are ideal in the construction of high rise buildings
- Are versatile systems that can easily fulfill performance requirements such as fire protection and sound and thermal insulation.
- They meet very high performance requirements with minimum accessories. They provide savings on transportation and labor, and are easy to install.

Depending on the performance requirement, the Knauf W116 System can use all types of Knauf Gypsum Boards, including Knauf Standard Board, Knauf Moisture-Resistant Gypsum Board, Knauf Fire-Resistant Gypsum Board, and Knauf Moisture & Fire-Resistant Gypsum Board as cladding.



W116 Installation Wall



Knauf Partition Wall Accessories



Knauf CW Studs

Knauf CW Studs are lightweight galvanized steel studs used to erect vertical metal frames.



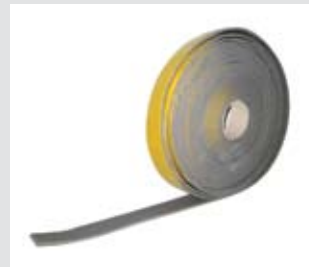
Knauf UW Channels

Knauf UW channels are used as heads on ceilings and bases on floors in the metal frame.



Knauf TN self-tap Drywall Screws

Knauf TN self-tap Drywall Screws are used to attach Knauf Gypsum Boards on the metal frame.



Knauf Sound Insulation Tape

In order to fulfill sound and thermal insulation requirements fully, Knauf Insulation Tape is attached on the back of Knauf UW channels and CW studs that constitute the metal frame where it abuts to the bearing structure.



Knauf Joint Tape

Knauf Joint Tape is attached on the joints of Knauf Gypsum Boards before Knauf Fugenfuller or F2F joint filler is applied to create a seamless surface.



Knauf Acoustical Sealant

An all-purpose water-based acrylic gun-applied acoustic sealant for use with Knauf Drywall Systems. It is applied with two continuous beads under the studs and tracks abutting concrete to prevent airborne transmission of sound and vibrations.



Knauf Fugenfuller

Knauf Fugenfuller is used to treat gypsum board joints and creates a seamless appearance on board surfaces.



Knauf Uniflott

As an alternative to Knauf Fugenfuller, Knauf Uniflott can be used to fill in and finish gypsum board joints. It creates a seamless appearance on board surfaces. Do not use joint tape on HRK and HRAK edge boards while applying Knauf Uniflott.



Knauf F2F

As a ready mixed alternative Knauf F2F can be used to fill in and finish gypsum board joints. F2F can also be used as a skim coat to provide a glossy and smooth look. It is a suitable substrate for synthetic paint, oil paint or wallpaper.

Knauf Suspended Ceilings



Knauf Suspended Ceilings are high-end systems with acoustical and fire-protection features that are manufactured in compliance with international building standards. Electrical wiring can easily be installed and concealed in them.

- They meet very high performance requirements with minimum accessories. They provide savings on transportation and labor, and are easy to install.

Knauf Suspended Ceilings:

- Are used for all types of interior ceiling installations.
- They create decorative surfaces. They are also suitable and easy-to-install systems for concealing services lines that should ideally remain unseen.
- Are lightweight and their impact on bearing system of the building is very low. They adapt to movements of the building. Therefore, they are ideal in the construction of high rise buildings.
- Are versatile systems that can easily fulfill performance requirements such as fire protection and sound and thermal insulation.

An Overview of Knauf Ceiling Systems Selection Criteria

	D112 Suspended Ceiling with Metal Grid	D113 Suspended Ceiling with Flush Metal Grid
Apartment Rooms	+	+
Hotel Rooms	+	+
Moist Areas	+	+
Hospital	+	+
Regular Office	+	+
Manager's Office	+	+
Factory	+	+
Warehouse	+	+

Knauf Metal Channels for Ceilings

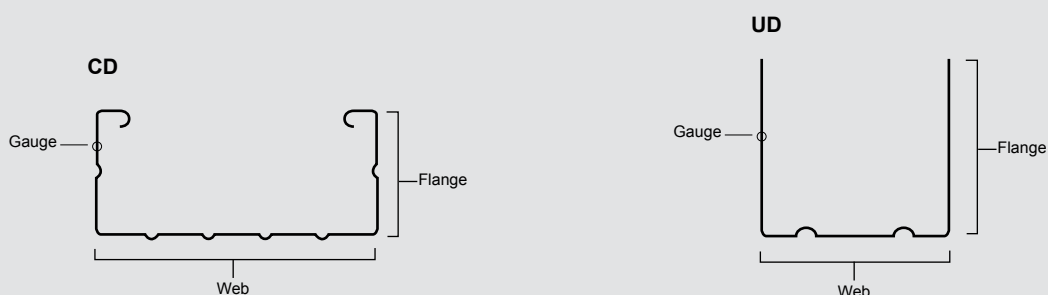
The Knauf Ceiling Systems grid consists of CD and UD channels, also generically known in Germany as metal profiles. Knauf Ceiling channels are manufactured in accordance with EN 14195, DIN 18182, and ASTM C 645 and possess the following on-site properties:

- Greater stability and resistance
- High moment of inertia
- Easy screw attachment

All Knauf Metal Channels are galvanized and have a non-corrosion guarantee. The standard steel gauge of Knauf Metal Channel is $0.6\text{mm} \pm 0.002\%$.

Knauf Ceiling Systems with Knauf CD and UD channels provide a compressive solution in the design phase of interior suspended ceilings where ease, speed and premium quality are of utmost importance.

Knauf CD Furring + Main Channel			
Dimensions (mm)			
Gauge	Size/Web	Length	Flange
0.6	60	3000	27
Knauf UD Perimeter Channel			
Dimensions (mm)			
Gauge	Size/Web	Length	Flange
0.5	28	3000	27
0.6	28	3000	27



D112 Knauf Suspended Ceiling

Depending on on-site performance requirements, Knauf Suspended Ceiling System can use all types of Knauf Gypsum Boards, including Knauf Standard Board, Knauf Moisture-Resistant Gypsum Board, Knauf Fire-Resistant Gypsum Board, and Knauf Moisture & Fire-Resistant Gypsum Board as cladding.

Knauf TN self-tap Drywall Screws are used to install Knauf Gypsum Boards on lightweight metal grids consisting of Knauf CD channels and UD channels in the D112 System.

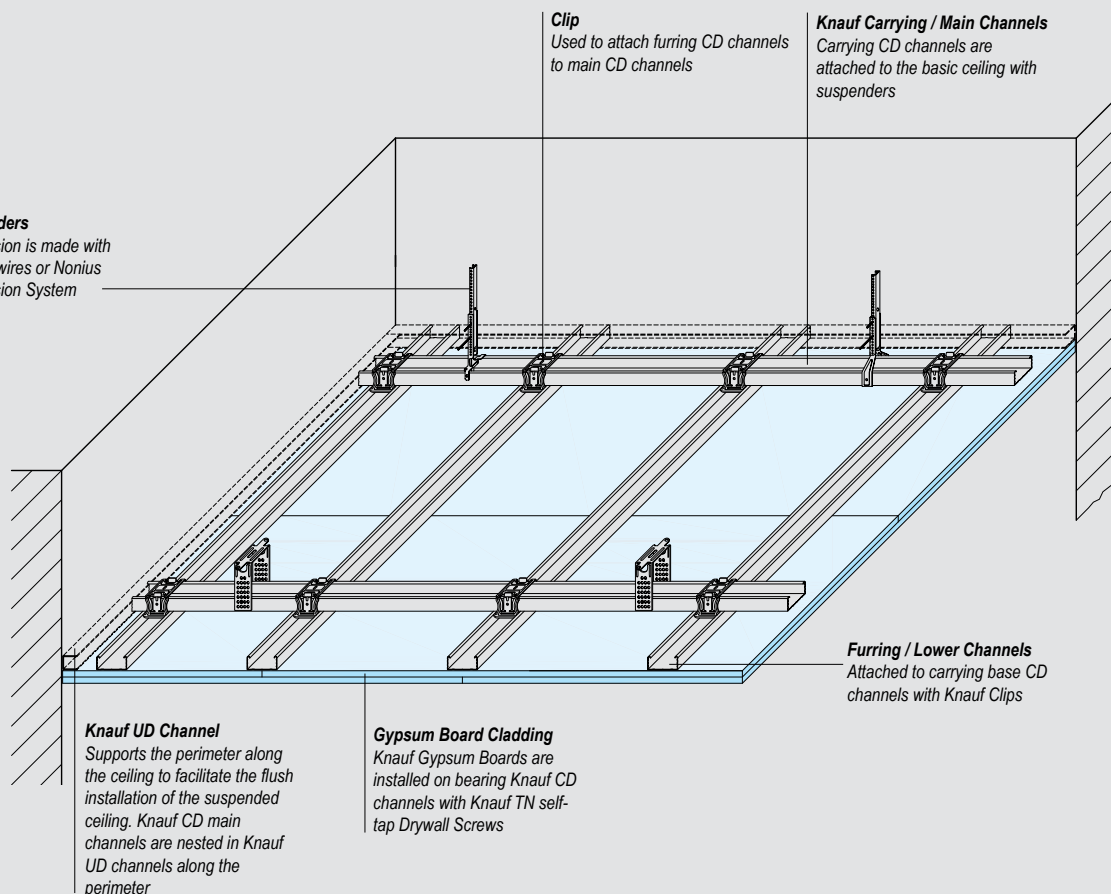
The Knauf D112 Suspended Ceiling System with metal grid consists of lower/furring and upper/main CD channels (60x27mm). Main channels are attached to the ceiling slab with hooked wires and rapid hangers or with Knauf Nonius Suspension System. Upper/main CD channels are attached to lower/furring channels with Knauf Clips in the Knauf D112 System. The Knauf UD channel is installed flush on the existing bearing system of the building with

anchoring screws. This facilitates the proper alignments and installation of all base and bearing studs and channels.

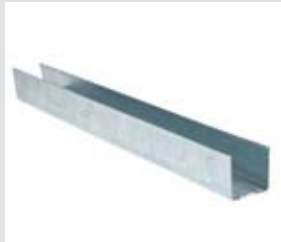
Knauf Gypsum Boards are installed on metal grids with screw attachment, starting at one end and gradually advancing towards the other.

Knauf Joint Tape, included here in the product group of Knauf Accessories, is applied on Knauf board joints that are then filled in with either Fugenfuller or F2F. Alternatively, Knauf Uniflott can be used for filling and finishing operations without using joint tape (for HRK and HRAK edges only).

In accordance with Knauf Finishing Technology, Knauf F2F is applied on the wall surface. This reduces the consumption of paint and fills up any existing pores, thus creating a smooth base for the final coat application.



Knauf Accessories & Fixtures for Suspended Ceilings



Knauf UD Channels

Knauf UD Channels are installed on the perimeter along the wall where a suspended ceiling is being constructed.



Knauf Rapid Hangers and Hanger Wires

These Knauf ceiling fixtures are used to attach main CD channels with the ceiling slab. They can be adjusted easily. The distance between the suspended ceiling and ceiling slab should exceed 12 cm.



Knauf Nonius Hanger Bottoms

Suspension attached to Knauf CD 60 x 27 Channels.
Max. Load Bearing Capacity: 40 kg



Knauf Nonius Pins

Attach Nonius Hanger Tops to Nonius Hanger Bottoms or Nonius Hanger Stirrups.



Knauf CD Channel Connectors

The Knauf CD Channel Connector are used to splice and extend Knauf CD channels across large ceiling spans.



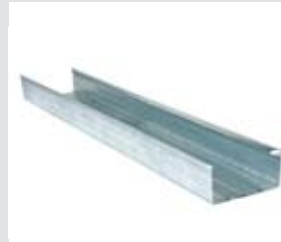
Knauf Joint Tape

Knauf Joint Tape is embedded in the joints of Knauf Gypsum Boards before Knauf Fugenfuller or F2F joint filler is applied to create a seamless surface.



Knauf Uniflott

As an alternative to Knauf Fugenfuller, Knauf Uniflott can be used to fill in and finish gypsum board joints. It creates a seamless appearance on board surfaces. Do not use joint tape on HRK and HRAK edge boards while applying Knauf Uniflott.



Knauf CD Channels

Galvanized steel sections to be used as the upper/main and lower/furring channel for Knauf's suspended ceiling system grid. They are nested in Knauf UD channels.



Knauf Nonius Hanger Tops

A heavy duty suspension alternative to hanger wires, Nonius Hanger Tops attach to Nonius Stirrups or Nonius Hanger Bottoms and are fixed to soffit. Available up to 4.00 m length in various sizes.
Max. Load Bearing Capacity: 40 kg



Knauf Nonius Stirrups

Suspension attached to Knauf CD 60x27 Channels.
Max Load Bearing Capacity: 40 kg



Knauf Clips

These Knauf ceiling fixtures are used to attach the upper/main channels to lower/furring channels at the intersection points of the ceiling grid.



Knauf TN self-tap Drywall Screws

Knauf TN self-tap Drywall Screws are used to attach Knauf Gypsum Boards on the metal grid.



Knauf Fugenfuller

Knauf Fugenfuller is used to treat gypsum board joints and creates a seamless appearance on board surfaces.



Knauf F2F

As a ready mixed alternative, Knauf F2F can be used to fill in and finish gypsum board joints. F2F can also be used as a skim coat to provide a glossy and smooth look. It is a suitable substrate for synthetic paint, oil paint or wallpaper.

D113 Knauf Suspended Ceiling

Depending on on-site performance requirements, Knauf Suspended Ceiling System can use all types of Knauf Gypsum Boards, including Knauf Standard Board, Knauf Moisture-Resistant Gypsum Board, Knauf Fire-Resistant Gypsum Board, and Knauf Moisture & Fire-Resistant Gypsum Board as cladding.

Knauf TN self-tap Drywall Screws are used to install Knauf Gypsum Boards on lightweight metal grids consisting of Knauf CD channels and UD channels in the D113 System.

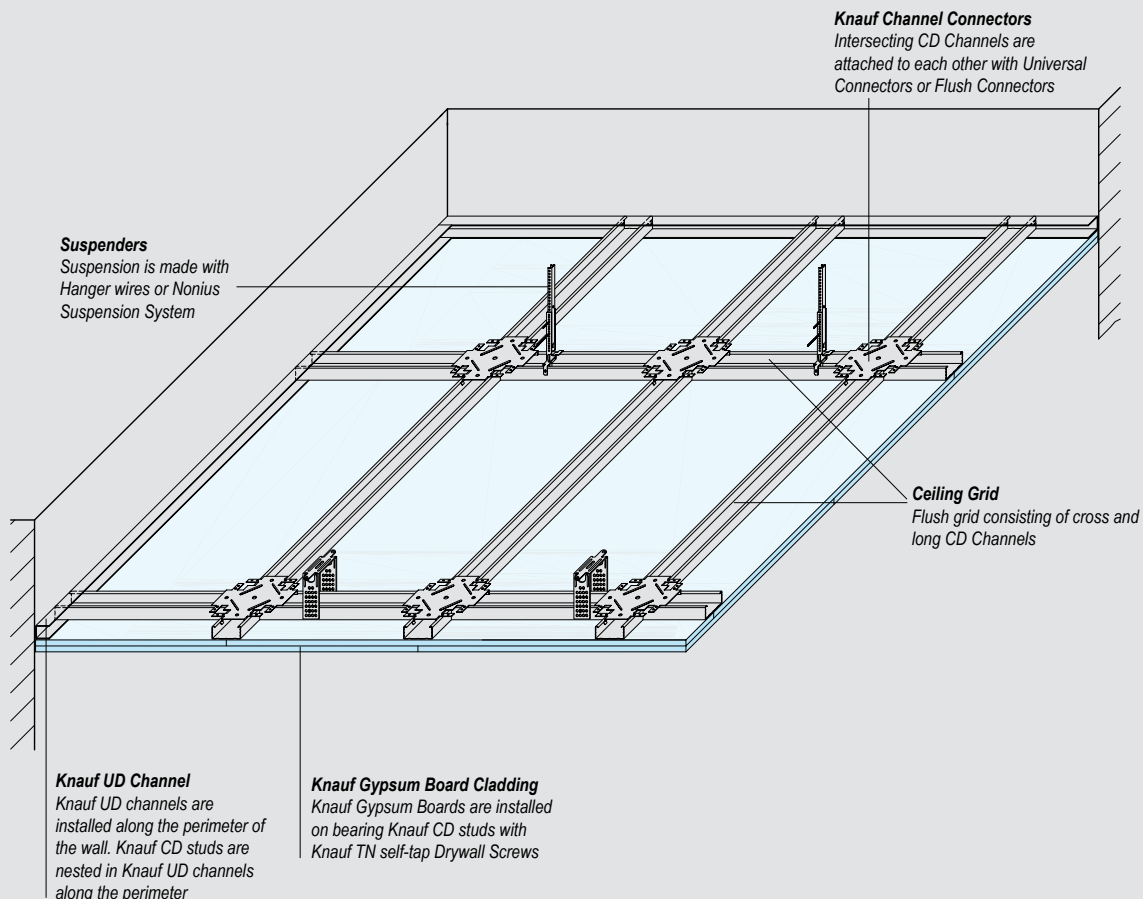
The Knauf D113 Suspended Ceiling System with metal grid consists of a flush grid of CD channels (60x27mm) allowing easy installation in limited ceiling spaces. CD Channels are attached to the ceiling slab with hooked wires and rapid hangers or with Knauf Nonius Suspension System. CD channels are attached to each other with Knauf Universal Flush connectors in the Knauf D113 System. Knauf UD channels are installed flush on the existing bearing system of the building with anchoring screws. This

facilitates the proper alignments and installation of all base and bearing studs and channels.

Knauf Gypsum Boards are installed on metal grid with screw attachment, starting at one end and gradually advancing towards the other.

Knauf Joint Tape, included here in the product group of Knauf Accessories, is applied on Knauf board joints that are then filled in with either Fugenfuller or F2F. Alternatively, Knauf Uniflott can be used for filling and finishing operations without using joint tape (for HRK and HRAK edges only).

In accordance with Knauf Finishing Technology, Knauf F2F is applied on the wall surface. This reduces the consumption of paint and fills up any existing pores, thus creating a smooth base for the final coat application.



Knauf Accessories & Fixtures for Suspended Ceilings



Knauf UD Channels

Knauf UD Channels are installed on the perimeter along the wall where a suspended ceiling is being constructed.



Knauf Rapid Hangers and Hanger Wires

These Knauf ceiling fixtures are used to attach main CD channels with the ceiling slab. They can be adjusted easily. The distance between the suspended ceiling and ceiling slab should exceed 12 cm.



Knauf Nonius Hanger Bottoms

Suspension attached to Knauf CD 60 x 27 Channels.
Max. Load Bearing Capacity: 40 kg



Knauf Nonius Pins

Attach Nonius Hanger Tops to Nonius Hanger Bottoms or Nonius Hanger Stirrups.



Knauf CD Channel Connectors

The Knauf CD Channel Connector are used to splice and extend Knauf CD channels across large ceiling spans.



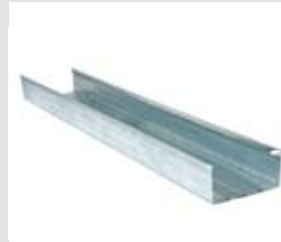
Knauf Joint Tape

Knauf Joint Tape is embedded in the joints of Knauf Gypsum Boards before Knauf Fugenfuller or F2F joint filler is applied to create a seamless surface.



Knauf Uniflott

As an alternative to Knauf Fugenfuller, Knauf Uniflott can be used to fill in and finish gypsum board joints. It creates a seamless appearance on board surfaces. Do not use joint tape on HRK and HRAK edge boards while applying Knauf Uniflott.



Knauf CD Channels

Galvanized steel sections to be used as the upper/main and lower/furring channel for Knauf's suspended ceiling system grid. They are nested in Knauf UD channels.



Knauf Nonius Hanger Tops

A heavy duty suspension alternative to hanger wires, Nonius Hanger Tops attach to Nonius Stirrups or Nonius Hanger Bottoms and are fixed to soffit. Available up to 4.00 m length in various sizes.
Max. Load Bearing Capacity: 40 kg



Knauf Nonius Stirrups

Suspension attached to Knauf CD 60x27 Channels.
Max Load Bearing Capacity: 40 kg



Knauf Clips

These Knauf ceiling fixtures are used to attach the upper/main channels to lower/furring channels at the intersection points of the ceiling grid.



Knauf TN self-tap Drywall Screws

Knauf TN self-tap Drywall Screws are used to attach Knauf Gypsum Boards on the metal grid.



Knauf Fugenfuller

Knauf Fugenfuller is used to treat gypsum board joints and creates a seamless appearance on board surfaces.



Knauf F2F

As a ready mixed alternative, Knauf F2F can be used to fill in and finish gypsum board joints. F2F can also be used as a skim coat to provide a glossy and smooth look. It is a suitable substrate for synthetic paint, oil paint or wallpaper.

Knauf Wall Lining Systems



Walls made of bricks, standard or reinforced concrete, CMU (combined masonry units) and other similar building materials can be lined with Knauf Wall Lining Systems that use a variety of Knauf Gypsum Boards as lining. Insulation material can be inserted between the gypsum boards where required.

Knauf Gypsum Boards can be screw-attached to a metal furring. A smooth wall surface is achieved without the further application of gypsum plaster.

All thermal and sound insulation and fire protection requirements as prescribed in International Standards are easily fulfilled and surpassed by Knauf Dry Lining Systems. For details of thermal insulation values in accordance with DIN standards, see Knauf W632 Wall Lining Technical Datasheet for details.

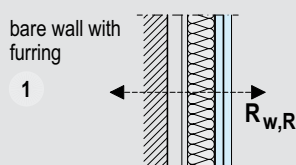
Knauf Dry Lining Systems with Metal Furring

- W 623 Knauf Dry Lining with Metal Furring using CD studs
- W 625 Knauf Dry Lining with Metal Furring using Knauf CW studs

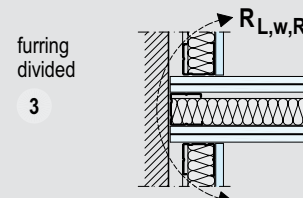
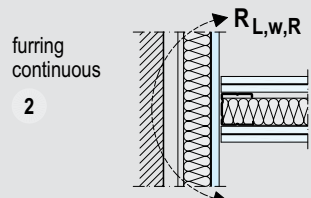
Knauf Wall Linings Sound Protection Improvement Guide

Technical data of solid wall				Calculation value of sound reduction index $R_{w,R}$			Calculation value of lateral sound reduction index $R_{L,w,R}$		
material	density material	thick-ness	weight per unit area	solid wall alone	bare wall with furring insulation 40 mm		solid wall alone	bare wall with furring	
one side gypsum plaster $\geq 10 \text{ kg/m}^2$	density wall kg/m^3	mm	kg/m^2	dB	cladding 12.5 mm	2x 12.5 mm ¹	dB	continuous	divided by partition
					dB			2	3
								dB	dB
autoclaved aerated concrete high precision bricks (DIN 4165) glued	500 (450)	125	56	29	47	48	36	49	57
		175	79	33	48	49	40	52	60
		250	113	38	52	53	45	53	64
		300	135	40	54	55	47	54	66
		365	164	42	56	57	50	56	68
	700 (650)	125	81	33	48	49	40	52	61
		175	114	38	52	53	45	54	63
		250	163	42	56	57	50	56	67
		300	195	44	58	59	52	57	69
		365	237	46	60	61	55	57	70
light weight perforated bricks (DIN 105) type W ₁ , type A and B with lightweight mortar	800 (770)	115	100	36	50	51	43	53	63
		175	145	41	55	56	48	55	66
		240	195	44	58	59	52	57	69
		300	241	47	61	62	55	57	71
		365	291	50	63	64	57	57	72
solid/ perforated/ solid high strength/ perforated high strength/ ceramic high strength bricks (DIN 105) with ordinary mortar	1200 (1180)	115	146	41	55	56	48	55	67
		175	217	45	59	60	53	57	70
		240	293	50	63	64	57	57	71
		300	364	53	65	66	60	58	72
		365	441	58	68	69	63	58	73
	1400 (1360)	115	166	42	56	57	50	56	67
		175	248	47	61	62	55	57	70
		240	336	51	64	65	59	57	72
		300	418	56	67	68	62	58	73
		365	506	59	69	70	65	58	74
	1600 (1540)	240	380	54	66	67	61	57	72
		300	472	57	68	69	64	58	73
		365	572	61	71	72	67	58	74
	1800 (1720)	240	423	56	67	68	62	57	73
		300	526	60	70	71	65	58	74
		365	638	62	72	73	68	58	75
lightweight hollow blocks (DIN 18151)	800 (820)	240	207	44	58	59	53	57	70
		300	256	47	61	62	55	57	71
		365	309	50	63	64	58	58	72
	1000 (1000)	240	250	47	61	62	55	57	71
		300	310	50	63	64	58	57	72
		365	375	52	66	67	61	58	73
	1200 (1180)	240	293	50	63	64	57	57	72
		300	364	53	65	66	60	58	73
		365	441	58	68	69	63	58	74
concrete masonry bricks (DIN 18153)	1800 (1720)	240	423	56	67	68	62	58	73
		300	526	60	70	71	65	58	74
		365	638	62	72	73	68	59	75
concrete (DIN 1045)	2400 (2300)	150	355	53	65	66	60	57	72
		200	470	58	68	69	64	58	73
		250	585	61	71	72	67	58	74

Separating component - sound reduction index $R_{w,R}$



Flanking component Longitudinal sound reduction index $R_{L,w,R}$



Knauf Wall Linings Thermal Insulation Improvement Guide

Technical data of solid wall (exterior wall)				U value (calculation according to DIN 4108)					
material	density material	thermal conductivity	thick-ness	solid wall alone	solid wall with furring				
including 20 mm lime cement exterior plaster	kg/m ³	value (λ_R) W/(m K)	mm	without insulation W/(m ² K)	with insulation (WLG 040)				
					30 mm	40 mm	50 mm	60 mm	80 mm
					W/(m ² K)				
autoclaved aerated concrete high precision bricks (DIN 4165) glued	500	0.16	250	0.57	0.39	0.36	0.33	0.30	0.26
			300	0.48	0.35	0.32	0.30	0.28	0.24
			365	0.40	0.30	0.28	0.26	0.25	0.22
	700	0.21	250	0.72	0.46	0.41	0.37	0.34	0.29
			300	0.62	0.41	0.37	0.34	0.31	0.27
			365	0.52	0.36	0.33	0.31	0.29	0.25
lightweight perforated mortar (DIN 105) type W ₁ with lightweight mortar	800	0.33	240	1.09	0.58	0.50	0.45	0.40	0.34
			300	0.91	0.52	0.46	0.41	0.38	0.32
			365	0.77	0.47	0.42	0.38	0.35	0.30
light weight perforated bricks (DIN 105), type A and B, with lightweight mortar	800	0.39	240	1.24	0.62	0.53	0.47	0.42	0.35
			300	1.04	0.56	0.49	0.44	0.40	0.33
			365	0.89	0.52	0.46	0.41	0.37	0.31
			365	1.49	0.67	0.58	0.50	0.46	0.37
solid bricks/ perforated bricks/ high strength bricks (DIN 105) with ordinary mortar	1200	0.50	300	1.26	0.62	0.54	0.48	0.43	0.35
			365	1.08	0.58	0.50	0.45	0.40	0.34
			365	1.65	0.71	0.60	0.52	0.46	0.38
	1400	0.58	300	1.41	0.66	0.56	0.50	0.44	0.36
			365	1.22	0.61	0.53	0.47	0.42	0.35
			365	1.83	0.74	0.62	0.54	0.47	0.38
	1600	0.68	300	1.58	0.69	0.59	0.51	0.46	0.37
			365	1.37	0.65	0.56	0.49	0.44	0.36
			365	2.04	0.77	0.65	0.56	0.49	0.39
	1800	0.81	300	1.78	0.73	0.62	0.53	0.47	0.38
			365	1.55	0.69	0.59	0.51	0.45	0.37
			365	1.24	0.62	0.54	0.47	0.42	0.35
lightweight hollow blocks (DIN 18151) 2-k-units, width ≤ 240 mm 3-k-units, width ≤ 300 mm 4-k-units, width ≤ 365 mm	800	0.39	240	1.04	0.56	0.49	0.44	0.40	0.33
			300	0.89	0.52	0.46	0.41	0.37	0.31
			365	1.47	0.67	0.57	0.50	0.45	0.36
	1000	0.49	240	1.24	0.62	0.54	0.47	0.42	0.35
			300	1.07	0.57	0.50	0.44	0.40	0.33
			365	1.69	0.71	0.60	0.52	0.46	0.38
	1200	0.60	240	1.44	0.67	0.57	0.50	0.44	0.36
			300	1.25	0.62	0.54	0.47	0.42	0.35
			365	1.93	0.75	0.63	0.55	0.48	0.39
concrete masonry bricks (DIN 18153)	1800	0.92	300	1.70	0.71	0.61	0.53	0.47	0.38
			365	1.61	0.70	0.60	0.52	0.46	0.37
calcium silicate bricks (DIN 106) with ordinary mortar	1200	0.56	240	1.37	0.65	0.56	0.49	0.44	0.36
			300	1.87	0.74	0.63	0.54	0.48	0.39
	1400	0.70	240	1.61	0.70	0.60	0.52	0.46	0.37
			300	2.01	0.77	0.64	0.55	0.49	0.39
	1600	0.79	240	1.75	0.72	0.61	0.53	0.47	0.38
			300	2.30	0.80	0.67	0.57	0.50	0.40
	1800	0.99	240	2.02	0.77	0.64	0.55	0.49	0.39
			300	1.78	0.73	0.62	0.53	0.47	0.38
concrete (DIN 1045)	2400	2.10	150	3.78	0.93	0.76	0.64	0.55	0.43
			200	3.47	0.91	0.74	0.63	0.54	0.43
			250	3.20	0.89	0.73	0.62	0.53	0.42
granite masonry	2800	3.50	400	3.25	0.90	0.73	0.62	0.54	0.42
			600	2.74	0.85	0.70	0.60	0.52	0.41
sandstone masonry	2600	2.30	400	2.73	0.85	0.70	0.60	0.52	0.41
			600	2.20	0.79	0.66	0.57	0.50	0.40

Note

Depending on the structure of the exterior wall an additional vapor barrier/ vapor seal can become necessary.
For this mean Knauf offers boards with laminated vapor seals on the back.



W623 Knauf Independent Furring with CD Channels

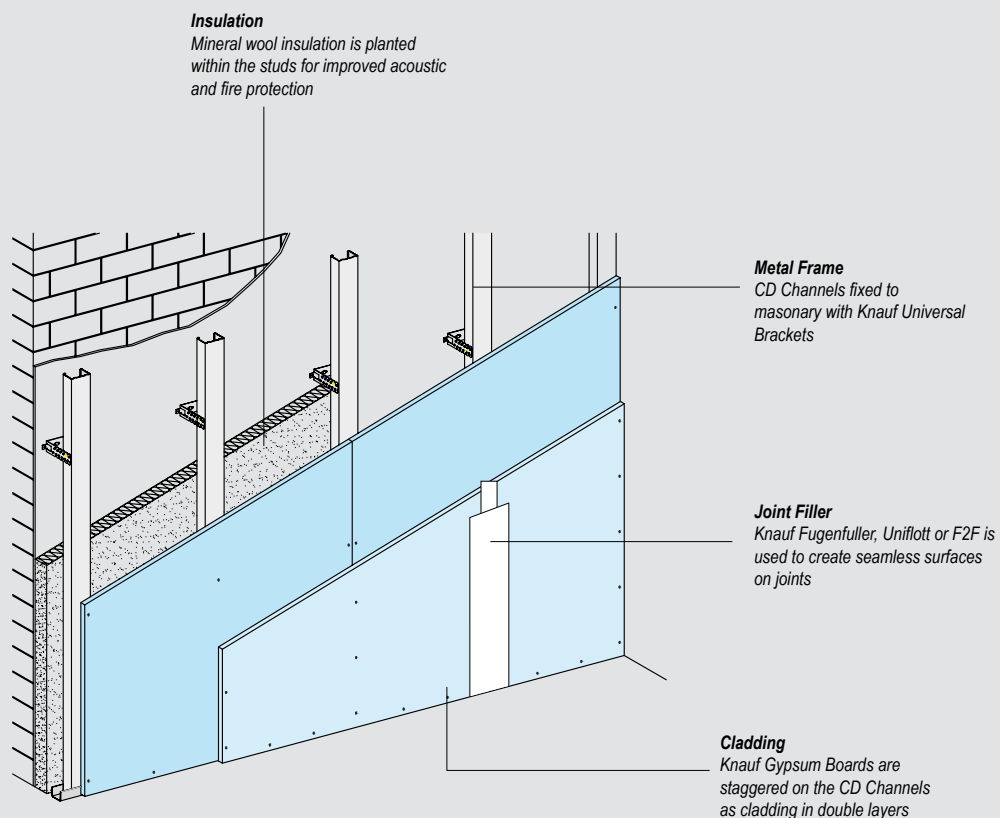
The Knauf W623 Dry Lining System with Metal Furring significantly increases the thermal and sound insulation values of existing walls to provide insulation that easily complies with all international standards. The Knauf W623 Dry Lining System can be applied on all types of wall surfaces. However, it is an ideal solution that meets high requirements for the thermal insulation of exterior masonry walls.

The Knauf W623 Dry Lining System

- Is used for all types of interior wall linings. Maximum distance from the lining to the existing wall = 30 mm.
- Insulation material and M&E (mechanical and electrical) service lines can be easily inserted into the cavities of the lining.
- The W623 System is an easy-to-install system applied with minimum accessories that provides savings on transportation and labor.

Depending on the performance requirements, the Knauf W623 System can use all types of Knauf Gypsum Boards, including Knauf Regular Board, Knauf Moisture-Resistant Gypsum Board, Knauf Fire-Resistant Gypsum Board, and Knauf Moisture & Fire-Resistant Gypsum Board as lining materials.

The Knauf W623 System consists of gypsum boards installed on Knauf CD and UD channels with Knauf TN self-tap Drywall Screws. The direct hanger attaches and locates the CD channel on the existing wall. Depending on the thermal insulation requirement, mineral wool can be inserted as insulation material into the cavities of the system.



Accessories for the Knauf W623 Dry Lining System with Metal Furring



Knauf CD Channels

Knauf CD channels constitute the main component in the metal furring of the W623 System.



Knauf UD Channels

Knauf UD channels constitute the head and the base in the metal furring of the W623 System.



Knauf Universal Brackets

Knauf Universal Brackets attach and locate the CD stud on the furring. The exact distance to the existing wall and the exact location of the CD stud can be adjusted to a wide range of clearances by simply bending or cutting the rear flanges of Knauf Universal Bracket.



Knauf TN self-tap Drywall Screws

Knauf TN self-tap Drywall Screws are used to attach Knauf Gypsum Boards on the metal grid.



Knauf Joint Tape

Knauf Joint Tape is attached on board joints before Knauf Fugenfuller or F2F joint filler is applied to create a seamless surface.



Knauf Fugenfuller

Knauf Fugenfuller is used to fill in gypsum board joints and creates a seamless appearance on board surfaces.



Knauf Uniflott

As an alternative to Knauf Fugenfuller, Knauf Uniflott can be used to fill in and finish gypsum board joints. It creates a seamless appearance in board surfaces. Do not use joint tape on HRK and HRAK edge boards while applying Knauf Uniflott.



Knauf F2F

As a ready mixed alternative Knauf F2F can be used to fill in and finish gypsum board joints. F2F can also be used as a skim coat to provide a glossy and smooth look. It is a suitable substrate for synthetic paint, oil paint or wallpaper.

W625 Knauf Independent Furring with CW Studs

The Knauf W625 Dry Lining System is similar to the Knauf W111 Partition Wall System with the difference that the W625 System uses gypsum boards as cladding on one side only. The Knauf W625 System significantly increases both thermal and sound insulation values with international standards.

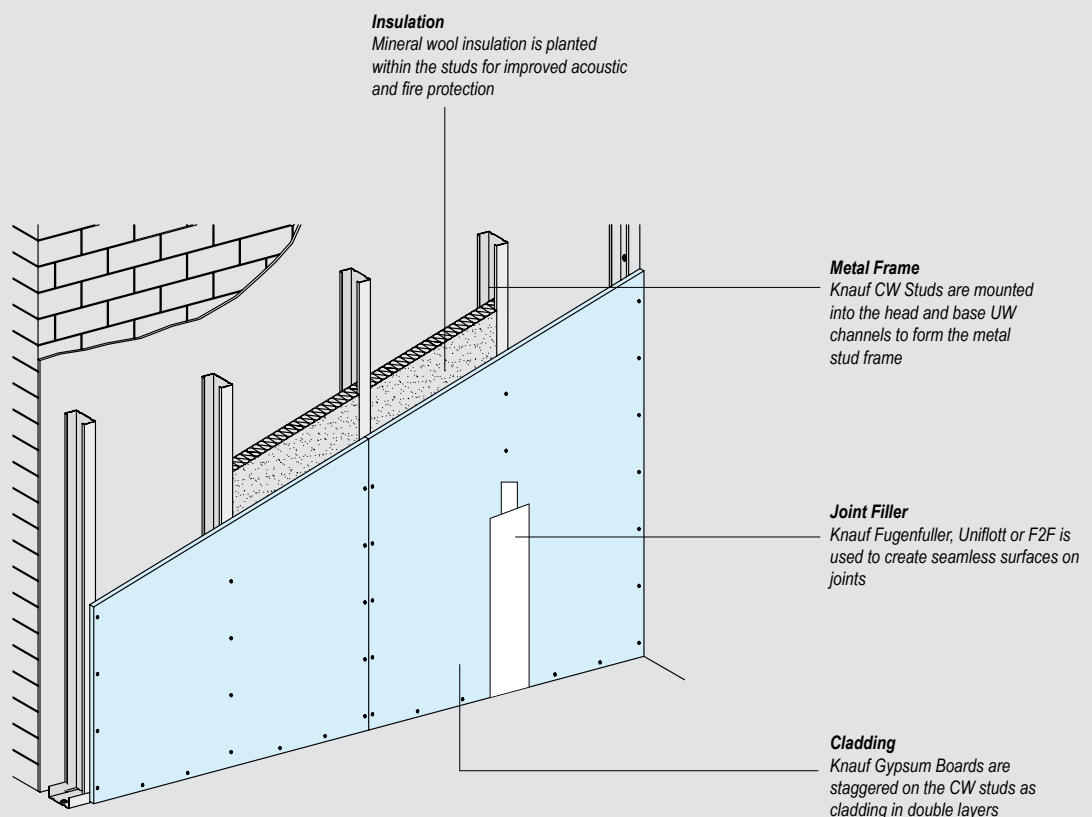
The Knauf W625 Dry Lining System can be applied on all types of wall surfaces. It is an ideal solution that meets high requirements for the thermal insulation of exterior masonry walls.

The Knauf W625 Dry Lining System:

- Is used for all types of interior wall linings.
- Insulation material, and service and plumbing lines can be easily inserted into the cavities of the lining.
- The W625 System is an easy-to-install system applied with minimum accessories that provides savings on transportation and labor.

Depending on the performance requirement, the Knauf W625 System can use all types of Knauf Gypsum Boards, including Knauf Standard Board, Knauf Moisture-Resistant Gypsum Board, Knauf Fire-Resistant Gypsum Board, and Knauf Moisture & Fire-Resistant Gypsum Board as lining materials.

The Knauf W625 System consists of gypsum boards installed on Knauf CW studs and UW channels with Knauf TN self-tap Drywall Screws. Depending on the thermal insulation requirement mineral wool may be inserted as insulation material into the cavities of the system.



Accessories for the Knauf W625 Dry Lining System with Metal Furring



Knauf CW Channel

Knauf CW Channels constitute the main component in the metal furring of the W625 System.



Knauf UW Channels

Knauf UW Channels constitute the head and the base in the metal furring of the W625 System.



Knauf Joint Tape

Knauf Joint Tape is attached on board joints before Knauf Fugenfuller or F2F joint filler is applied to create a seamless surface.



Knauf TN self-tap Drywall Screws

Knauf TN self-tap Drywall Screws are used to attach Knauf Gypsum Boards on the metal grid.



Knauf Uniflott

As an alternative to Knauf Fugenfuller, Knauf Uniflott can be used to fill in and finish gypsum board joints. It creates a seamless appearance in board surfaces. Do not use joint tape on HRK and HRAK edge boards while applying Knauf Uniflott.



Knauf Fugenfuller

Knauf Fugenfuller is used to fill in gypsum board joints and creates a seamless appearance on board surfaces.



Knauf F2F

As a ready mixed alternative Knauf F2F can be used to fill in and finish gypsum board joints. F2F can also be used as a skim coat to provide a glossy and smooth look. It is a suitable substrate for synthetic paint, oil paint or wallpaper.

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Knauf Drywall Systems Guide

Knauf Access Panels Brochure

Knauf Drywall Tools Brochure

Knauf Drywall Training Brochure

Knauf Cleaneo Acoustic Ceilings Brochure

D11 Knauf Ceilings Technical Datasheet

W11 Knauf Partitions Technical Datasheet

D12 Knauf Cleaneo Acoustic Ceilings Technical Datasheet

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